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Nitrogen Newsletter is a summary of recent publications, news and reports related to the cycling, effects and management of nitrogen. Prepared by Mary O'Brien and Jana Compton. Contact Jana Compton with any questions (Compton.jana@epa.gov)

Please note: Most of these links are available to EPA staff through library access – not all links will be available to folks outside EPA, depending on your access to specific journals and websites.

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Special Issues

BIOGEOMON 2009

Biogeochemistry, 101(1-3), December 2010. ISSN 0168-2563.

<http://springerlink.com/content/0168-2563/101/1-3/>

Lake Restoration: An Experimental Ecosystem Approach for Eutrophication Control

Guest Editors: D.P. Hamilton, M.J. Landman

Hydrobiologia, 661(1), February 2011. ISSN 0018-8158.

<http://www.springerlink.com/content/0018-8158/661/1/>

Articles

Abell, Guy C. J., Jo Banks, D. Jeff Ross, John P. Keane, Stanley S. Robert, Andrew T. Revill, and John K. Volkman.

Effects of estuarine sediment hypoxia on nitrogen fluxes and ammonia oxidizer gene transcription

FEMS Microbiology Ecology, 75(1): 111-122, January 2011. ISSN 0168-6496.

<http://dx.doi.org/10.1111/j.1574-6941.2010.00988.x>

Allen, D., R. C. Dalal, H. Rennenberg, and S. Schmidt.

Seasonal variation in nitrous oxide and methane emissions from subtropical estuary and coastal mangrove sediments, Australia

Plant Biology, 13(1): 126-133, January 2011. ISSN 1435-8603.
<http://dx.doi.org/10.1111/j.1438-8677.2010.00331.x>

Antonopoulos, Vassilis Z.

Modelling of water and nitrogen balances in the ponded water and soil profile of rice fields in Northern Greece

Agricultural Water Management, 98(2): 321-330, December 15, 2010. ISSN 0378-3774.
<http://dx.doi.org/10.1016/j.agwat.2010.08.026>

ArandaCirerol, Nancy, Francisco Comin, and Jorge Herrera-Silveira.

Nitrogen and phosphorus budgets for the Yucatan littoral: An approach for groundwater management

Environmental Monitoring and Assessment, 172(1-4): 493-505, January 2011. ISSN 0167-6369.
<http://dx.doi.org/10.1007/s10661-010-1349-z>

Armitage, Heather F., Andrea J. Britton, Sarah J. Woodin, and Rene van der Wal.

Assessing the recovery potential of alpine moss-sedge heath: Reciprocal transplants along a nitrogen deposition gradient

Environmental Pollution, 159(1): 140-147, January 2011. ISSN 0269-7491.
<http://dx.doi.org/10.1016/j.envpol.2010.09.011>

Barba-Brioso, C., G. Quaranta, E. Galan, J. C. Fernandez-Caliani, and A. Miras.

The life cycle impact assessment applied to the Domingo Rubio tidal system by the study of seasonal variations of the aquatic eutrophication potential

Science of the Total Environment, 408(23): 5897-5902, November 1, 2010. ISSN 0048-9697.
<http://dx.doi.org/10.1016/j.scitotenv.2010.08.002>

Bargu, Sibel, John R. White, Chunyan Li, Jessica Czubakowski, and Robinson W. Fulweiler.

Effects of freshwater input on nutrient loading, phytoplankton biomass, and cyanotoxin production in an oligohaline estuarine lake

Hydrobiologia, 661(1): 377-389, February 2011. ISSN 0018-8158.
<http://dx.doi.org/10.1007/s10750-010-0545-8>

Barlett, Melissa A., and Laura G. Leff.

Planktonic bacterial responses to nutrient amendments in wetland mesocosms

Wetlands, 30(6): 1161-1170, December 2010. ISSN 0277-5212.
<http://dx.doi.org/10.1007/s13157-010-0107-x>

Bassanino, Monica, Dario Sacco, Laura Zavattaro, and Carlo Grignani.

Nutrient balance as a sustainability indicator of different agro-environments in Italy

Ecological Indicators, 11(2): 715-723, March 2011. ISSN 1470-160X.
<http://dx.doi.org/10.1016/j.ecolind.2010.05.005>

Benitez-Gilabert, M., M. Alvarez-Cobelas, and David G. Angeler.

Effects of climatic change on stream water quality in Spain

Climatic Change, 103(3-4): 339-352, December 2010. ISSN 0165-0009.

<http://dx.doi.org/10.1007/s10584-009-9778-9>

Clark, Christopher M., and David Tilman.

Recovery of plant diversity following N cessation: effects of recruitment, litter, and elevated N cycling

Ecology, 91(12): 3620-3630, December 2010, ISSN 0012-9658.

<http://dx.doi.org/10.1890/09-1268.1>

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Bio-indicators of nitrogen pollution in heather moorland

Science of the Total Environment, 408(24): 6202-6209, November 15, 2010. ISSN 0048-9697.

<http://dx.doi.org/10.1016/j.scitotenv.2010.08.060>

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External N inputs and internal N cycling traced by isotope ratios of nitrate, dissolved reduced nitrogen, and particulate nitrogen in the eastern Mediterranean Sea

Journal of Geophysical Research-Biogeosciences, 115: G04041, December 23, 2010. ISSN 0148-0227.

<http://dx.doi.org/10.1029/2009JG001214>

Eriksson, Tobias, Mats G. Oquist, and Mats B. Nilsson.

Effects of decadal deposition of nitrogen and sulfur, and increased temperature, on methane emissions from a boreal peatland

Journal of Geophysical Research-Biogeosciences, 115: G04036, December 17, 2010. ISSN 0148-0227.

<http://dx.doi.org/10.1029/2010JG001285>

Exbrayat, J. -F., N. R. Viney, J. Seibert, S. Wrede, H. -G. Frede, and L. Breuer.

Ensemble modelling of nitrogen fluxes: data fusion for a Swedish meso-scale catchment

Hydrology and Earth System Sciences, 14(12): 2383-2397, 2010. ISSN 1027-5606.

<http://dx.doi.org/10.5194/hess-14-2383-2010>

Eyre, Bradley D., Angus J. P. Ferguson, Arthur Webb, Damien Maher, and Joanne M. Oakes.

Denitrification, N-fixation and nitrogen and phosphorus fluxes in different benthic habitats and their contribution to the nitrogen and phosphorus budgets of a shallow oligotrophic sub-tropical coastal system (southern Moreton Bay, Australia)

Biogeochemistry, 102(1-3): 111-133, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9425-6>

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Climate impacts on European agriculture and water management in the context of adaptation and mitigation-The importance of an integrated approach

Science of the Total Environment, 408(23): 5667-5687, November 1, 2010. ISSN 0048-9697.

<http://dx.doi.org/10.1016/j.scitotenv.2009.05.002>

Fang, Huajun, Guirui Yu, Shulan Cheng, Tianhong Zhu, Jiaojiao Zheng, Jiangming Mo, Junhua Yan, and Yiqi Luo.

Nitrogen-15 signals of leaf-litter-soil continuum as a possible indicator of ecosystem nitrogen saturation by forest succession and N loads

Biogeochemistry, 102(1-3): 251-263, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9438-1>

Fontaine, S., C. Henault, A. Aamor, N. Bdioui, J. M. G. Bloor, V. Maire, B. Mary, S. Revaillet, and P. A. Maron.

Fungi mediate long term sequestration of carbon and nitrogen in soil through their priming effect

Soil Biology & Biochemistry, 43(1): 86-96, January 2011. ISSN 0038-0717.

<http://dx.doi.org/10.1016/j.soilbio.2010.09.017>

Gascuel-Odoux, Chantal, Pierre Aurousseau, Patrick Durand, Laurent Ruiz, and Jerome Molenat.

The role of climate on inter-annual variation in stream nitrate fluxes and concentrations

Science of the Total Environment, 408(23): 5657-5666, November 1, 2010. ISSN 0048-9697.

<http://dx.doi.org/10.1016/j.scitotenv.2009.05.003>

Groffman, Peter M., Janet P. Hardy, Samuel Fashu-Kanu, Charles T. Driscoll, Natalie L. Cleavitt, Timothy J. Fahey, and Melany C. Fisk.

Snow depth, soil freezing and nitrogen cycling in a northern hardwood forest landscape

Biogeochemistry, 102(1-3): 223-238, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9436-3>

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Erratum to: Ammonium nitrogen deposition as a dominant source of nitrogen in a forested watershed experiencing acid rain in central Japan (vol. 212, pg. 337, 2010)

Water, Air, and Soil Pollution, 214(1-4): 699, January 2011. ISSN 0049-6979.

<http://dx.doi.org/10.1007/s11270-010-0415-z>

Han, Haejin, Nathan Bosch, and J. David Allan.

Spatial and temporal variation in phosphorus budgets for 24 watersheds in the Lake Erie and Lake Michigan basins

Biogeochemistry, 102(1-3): 45-58, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9420-y>

Hardison, A. K., E. A. Canuel, I. C. Anderson, C. Tobias, and B. Veuger.

Benthic microalgae and bacteria facilitate carbon and nitrogen retention in shallow photic sediments

Geochimica et Cosmochimica Acta, 74(12, Suppl. 1): A382, June 2010. ISSN 0016-7037.

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Hatcher, Patrick G., Rajaa Mesfioui, and Georgina McKee.

Identification of amides involved in Nitrogen sequestration in dissolved organic matter and sediments by ESI-FTICR-MS

Geochimica et Cosmochimica Acta, 74(12, Suppl. 1): A386, June 2010. ISSN 0016-7037.

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Hill, Brian H. and David W. Bolgrien.

Nitrogen removal by streams and rivers of the Upper Mississippi River basin

Biogeochemistry, 102(1-3): 183-194, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9431-8>

Hopkins, Jessica M., Amy M. Marcarelli, and Heather A. Bechtold.

Ecosystem structure and function are complementary measures of water quality in a polluted, spring-influenced river

Water, Air, and Soil Pollution, 214(1-4): 409-421, January 2011. ISSN 0049-6979.

<http://dx.doi.org/10.1007/s11270-010-0432-y>

Kool, Dorien M., Jan Dolfing, Nicole Wrage, and Jan Willem Van Groenigen.

Nitrifier denitrification as a distinct and significant source of nitrous oxide from soil

Soil Biology & Biochemistry, 43(1): 174-178, January 2011. ISSN 0038-0717.

<http://dx.doi.org/10.1016/j.soilbio.2010.09.030>

Mackey, Katherine R. M., Gert L. van Dijken, Simran Mazloom, Andrea M. Erhardt, John Ryan, Kevin R. Arrigo, and Adina Paytan.

Influence of atmospheric nutrients on primary productivity in a coastal upwelling region

Global Biogeochemical Cycles, 24: GB4027, December 10, 2010. ISSN 0886-6236.

<http://dx.doi.org/10.1029/2009GB003737>

McDonald, Cory P., Noel R. Urban, and Colin M. Casey.

Modeling historical trends in Lake Superior total nitrogen concentrations

Journal of Great Lakes Research, 36(4): 715-721, December 2010. ISSN 0380-1330.

<http://dx.doi.org/10.1016/j.jglr.2010.07.008>

Myles, Latoya, and Larry Robinson.

Dry and wet deposition of reduced nitrogen to the Tampa Bay Watershed

Geochimica et Cosmochimica Acta, 74(12, Suppl. 1): A742, June 2010. ISSN 0016-7037.

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Nie, Ming, Meng Lu, Qiang Yang, Xiao-Dong Zhang, Ming Xiao, Li-Fen Jiang, Ji Yang, Chang-Ming Fang, and Jia-Kuan Chen, and Bo Li.

Plants' use of different nitrogen forms in response to crude oil contamination

Environmental Pollution, 159(1): 157-163, January 2011. ISSN 0269-7491.

<http://dx.doi.org/10.1016/j.envpol.2010.09.013>

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Temporal variability of nitrate transport through hydrological response during flood events within a large agricultural catchment in south-west France

Science of the Total Environment, 409(1): 140-149, December 1, 2010. ISSN 0048-9697.

<http://dx.doi.org/10.1016/j.scitotenv.2010.09.006>

Pregitzer, Kurt S., Donald R. Zak, Alan F. Talhelm, Andrew J. Burton, Jennifer R. Eikenberry.

Nitrogen turnover in the leaf litter and fine roots of sugar maple

Ecology, 91(12): 3456-3462, December 2010. ISSN 0012-9658.

<http://dx.doi.org/10.1890/10-0633.1>

Ramirez, Kelly S., Christian L. Lauber, Rob Knight, Mark A. Bradford, and Noah Fierer.

Consistent effects of nitrogen fertilization on soil bacterial communities in contrasting systems

Ecology, 91(12): 3463-3470, December 2010. ISSN 0012-9658.

<http://dx.doi.org/10.1890/10-0426.1>

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Effect of sediment and nutrient loading on Lake Tahoe optical conditions and restoration opportunities using a newly developed lake clarity model

Water Resources Research, 46: W10505, October 6, 2010. ISSN 0043-1397.

<http://dx.doi.org/10.1029/2009WR008447>

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Spatial variability of sediment denitrification across the Atchafalaya River Basin, Louisiana, USA

Wetlands, 30(5): 949-955, October 2010. ISSN 0277-5212.

<http://dx.doi.org/10.1007/s13157-010-0091-1>

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Atmospheric nitrous oxide during the last 140,000 years

Earth and Planetary Science Letters, 300(1-2): 33-43, November 15, 2010. ISSN 0012-821X.

<http://dx.doi.org/10.1016/j.epsl.2010.09.027>

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Nitrogen cycling and trace gas dynamics in coastal aquifers

Geochimica et Cosmochimica Acta, 74(12, Suppl. 1): A928, June 2010. ISSN 0016-7037.

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Stable N isotope composition of nitrate reflects N transformations during the passage of water through a montane rain forest in Ecuador

Biogeochemistry, 102(1-3): 195-208, January 2011. ISSN 0168-2563.

<http://dx.doi.org/10.1007/s10533-010-9434-5>

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Geomorphic controls on nitrate processing in a freshwater tidal marsh invaded by *Hydrilla* sp., Patuxent River, MD

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Souza, Lara, Windy A. Bunn, Jake F. Weltzin, and Nathan J. Sanders.

Similar biotic factors affect early establishment and abundance of an invasive plant species across spatial scales

Biological Invasions, 13(1): 255-267, January 2011. ISSN 1387-3547.

<http://dx.doi.org/10.1007/s10530-010-9805-9>

Stewart, Katherine J., Darwyn Coxson, and S. D. Siciliano.

Small-scale spatial patterns in N₂-fixation and nutrient availability in an arctic hummock-hollow ecosystem

Soil Biology & Biochemistry, 43(1): 133-140, January 2011. ISSN 0038-0717.

<http://dx.doi.org/10.1016/j.soilbio.2010.09.023>

Tague, C., L. Band, S. Kenworthy, and D. Tenebaum.

Plot- and watershed-scale soil moisture variability in a humid Piedmont watershed

Water Resources Research, 46: W12541, December 16, 2010. ISSN 0043-1397.

<http://dx.doi.org/10.1029/2009WR008078>

Wang, Fan, Wensheng Ge, and Greg Michalski.

Role of water availability in source partitioning for desert nitrate: New evidence from mass-independent oxygen isotopic compositions

Geochimica et Cosmochimica Acta, 74(12, Suppl. 1): A1100, June 2010. ISSN 0016-7037.

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Wankel, Scott D., Annika C. Mosier, Colleen M. Hansel, Adina Paytan, and Christopher A. Francis.

Spatial variability in nitrification rates and ammonia-oxidizing microbial communities in the agriculturally impacted Elkhorn Slough estuary, California

Applied and Environmental Microbiology, 77(1): 269-280, January 2011. ISSN 0099-2240.

<http://dx.doi.org/10.1128/AEM.01318-10>

Zerkle, A. L., K. Scheiderich, J. A. Maresca, L. J. Liermann, and S. L. Brantley.

Molybdenum isotope fractionation by cyanobacterial assimilation during nitrate utilization and N-2 fixation

Geobiology, 9(1): 94-106, January 2011. ISSN 1472-4677.

<http://dx.doi.org/10.1111/j.1472-4669.2010.00262.x>

News

MU scientists find new farming method to reduce greenhouse gases, increase farm yields

January, 13, 2011

<http://munews.missouri.edu/news-releases/2011/0113-mu-scientists-find-new-farming-method-to-reduce-greenhouse-gases-increase-farm-yields/>

For BNA subscribers (including EPA staff):

Chesapeake Bay: EPA site tracks progress in cutting pollution to Bay

Daily Environment Report, January 31, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=19152312&vname=dennotallissues&wsn=497385000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Air pollution: Momentum builds for global governance of air pollution as U.N. releases reports

Daily Environment Report, January 27, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=19138826&vname=dennotallissues&wsn=497437500&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Air pollution: EPA report offers range for nitrogen, sulfur air standards based on acidification

Daily Environment Report, January 26, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=19131725&vname=dennotallissues&wsn=497468500&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Water pollution: State programs to curb agricultural runoff fall short on enforcement, report says

Daily Environment Report, January 20, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=19010085&vname=dennotallissue&wsn=497606000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Air pollution: EPA expected to set sectorwide pollution rules for power plants, refineries
Daily Environment Report, January 18, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=18966799&vname=dennotallissue&wsn=497675000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Water pollution: stormwater runoff, nutrients called major Clean Water priorities in 2011

Daily Environment Report, January 18, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=18966821&vname=dennotallissue&wsn=497676000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Air pollution: EPA releases data from study of emissions from animal feedlots

Daily Environment Report, January 14, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=18958753&vname=dennotallissue&wsn=497698000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

Water pollution: New Jersey governor signs bills to curb nutrient pollution of Barnegat Bay watershed

Daily Environment Report, January 6, 2011

http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=18925482&vname=dennotallissue&wsn=497893000&searchid=13715925&doctypeid=1&type=date&mode=doc&split=0&scm=DELNWB&pg=1

For Greenwire subscribers (including EPA staff):

Chesapeake Bay: States' pollution plans get lousy grades in watchdog's report card

Greenwire, January 25, 2011

<http://www.eenews.net/Greenwire/2011/01/25/archive/15>

Agriculture: Tilling the soil could aggravate climate change

ClimateWire, January 6, 2011

<http://www.eenews.net/climatewire/2011/01/06/archive/10>

Water pollution: EPA imposes Calif. nutrient curbs for Klamath River

E&ENews PM, January 4, 2011

<http://www.eenews.net/eenewspm/2011/01/04/archive/3>

For Inside EPA subscribers (including EPA staff):

EPA flags uncertainties in draft study of biofuels' environmental impacts

Daily News, January 28, 2011

<http://insideepa.com/201101282352628/EPA-Daily-News/Daily-News/epa-flags-uncertainties-in-draft-study-of-biofuels-environmental-impacts/menu-id-95.html>

Long-awaited SAB report could help EPA target multimedia nitrogen cuts

Daily News, January 26, 2011

<http://insideepa.com/201101262352277/EPA-Daily-News/Daily-News/long-awaited-sab-report-could-help-epa-target-multimedia-nitrogen-cuts/menu-id-95.html>

EPA proposes to scale back plans for novel NOx-SOx air standard

Daily News, January 25, 2011

<http://insideepa.com/201101262352243/EPA-Daily-News/Daily-News/epa-proposes-to-scale-back-plans-for-novel-nox-sox-air-standard/menu-id-95.html>

EPA to add 'backstops' to state plans for Chesapeake Bay cleanup

Inside EPA, January 7, 2011

<http://insideepa.com/Inside-EPA/Inside-EPA-01/07/2011/epa-to-add-backstops-to-state-plans-for-chesapeake-bay-cleanup/menu-id-153.html>

EAB ruling could set precedent for weighing new NAAQS in air permits

Clean Air Report, January 6, 2011

<http://insideepa.com/Clean-Air-Report/Clean-Air-Report-01/06/2011/eab-ruling-could-set-precedent-for-weighing-new-naaqs-in-air-permits/menu-id-154.html>

Advisers query EPA bid to set upstream nutrient limits for Florida's coast

Risk Policy Report, January 4, 2011

<http://insideepa.com/Risk-Policy-Report/Risk-Policy-Report-01/04/2011/advisers-query-epa-bid-to-set-upstream-nutrient-limits-for-floridas-coast/menu-id-158.html>

Reports

Convention on Long-range Transboundary Air Pollution Task Force on Hemispheric Transport of Air Pollution

HTAP 2010 Assessment Report

Geneva: United Nations Economic Commission for Europe, 2010.

<http://www.htap.org/>

Click on "Assessment Reports" and then on "HTAP 2010."

International Union of Air Pollution Prevention and Environmental Protection's World Clean Air Congress

One Atmosphere: Final Declaration of the XVth World Clean Air Congress, Vancouver, September 2010

Burgess Hill, West Sussex: IUAPPA, 2010.

<http://www.iuappa.com/newsletters/VancouverDeclaration.pdf>

Global Atmospheric Pollution Forum

Atmospheric Pollution: Developing a Global Approach (Discussion Paper)

Heslington, York: Stockholm Environment Institute, 2010.

<http://sei-international.org/rapidc/gapforum/html/reports/discussionpaper1.pdf>

Policy Assessment for the Review of the Secondary National Ambient Air Quality Standards for Oxides of Nitrogen and Oxides of Sulfur

Research Triangle Park, NC: U.S. Environmental Protection Agency Office of Air Quality Planning and Standards Health and Environmental Impacts Division, February 2011. EPA-452/R-11-005a.

http://www.epa.gov/ttn/naaqs/standards/no2so2sec/cr_pa.html

Environmental Law & Policy Center and the Mississippi River Collaborative

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